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1638

RAW SEQUENCE LISTING DATE: 03/09/2001
 PATENT APPLICATION: US/09/718,754A TIME: 11:15:19

Input Set : A:\1189CORRSEQLIST.TXT
 Output Set: N:\CRF3\03092001\I718754A.raw

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4 <110> APPLICANT: Lappegard, Kathryn K.
 5 Abbitt, Shane E.
 6 Martino-Catt, Susan J.
 7 Shi, Jinrui
 8 Gordon-Kamm, William J.
 9 Lowe, Keith S.
 11 <120> TITLE OF INVENTION: Seed-Preferred Regulatory Elements and
 12 Uses Thereof
 14 <130> FILE REFERENCE: 1189
 16 <140> CURRENT APPLICATION NUMBER: 09/718,754A
 17 <141> CURRENT FILING DATE: 2000-11-22
 19 <160> NUMBER OF SEQ ID NOS: 19
 21 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 1247
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Zea maize
 28 <220> FEATURE:
 29 <221> NAME/KEY: promoter
 30 <222> LOCATION: (1)...(1247)
 32 <400> SEQUENCE: 1
 33 atcgtagata aagttggatt atacaatatc catttacaac taaatagaaa ccaattaatt 60
 34 taaaaaacta aaaaaacctt tatcacgcta caggagaaga gagcatcaac ttgctatttag 120
 35 ttttatgcat ttaaacaccc ttcgaaacat cagcagtggt tgatagggtt aactgatact 180
 36 aatatcttgt cttaataact agcaccaact gataataatc ttctgaacac atgttattat 240
 37 ctattgttga cttaatacaa tactaaatcc aagatatttag tagagatgtt agtatagatt 300
 38 aaggtgatgt ttgaatgcac tagagctaat agtttagtagc taaaattagt tggagacatt 360
 39 caaacaccct atcaattatt agttattttt agtaaatagg ttaatagtta gttagttatt 420
 40 tataagctag ctttttttac tagcaatttt ttagccaact aacaattagt tttagtgtat 480
 41 tcaaatatccc ctaagccggt aagtgatgct ctttctagaa tcttaaccgt atgtggagac 540
 42 aacattttca taggtgtact gtttaagtca ccgtcagtga taataatatt ttcacatgag 600
 43 gtttcttaag caaacgccca gtgctaataa tatttacct agcgggctgc taaagaaaac 660
 44 cgcccgtgct aaagatattt aactagcggt ttggtgaaca actgcctgtg aaaaaagccg 720
 45 attcctacta gcccttagct tgcactggcg acataaaaaa cgtcagtga aatagctcta 780
 46 ggatcgctac tatagagctt ctatgtactt agtggttaga actgatattg tagtgcacca 840
 47 agtgcgatt ttaattaaac caatactaaa tactagttaa taatactagt ggtctgaatt 900
 48 cgattttctat agtaattgtt gcttgcaagc cgcaaataga gtaaacattc gtcgtcacag 960
 49 aaatccacat tacatcaagg tccatggcgg ccggccacgt acccatccca cgcgtcgtg 1020
 50 cggaggacac gtgttggtg accggacagt tggccgatca gacagtggac agaccggaca 1080
 51 atagaagaag aagacgacga cggcggcggc accgccgagt aggtgcatgg tcacgctagc 1140
 52 tgtagctttt tgcagagcgt cgtctgtaaa tacgtagccc ttccacaagc gaggcaaggg 1200
 53 gggagagagt atcgtagcgt agcagagaga gtgcgttagca actagca 1247
 55 <210> SEQ ID NO: 2
 56 <211> LENGTH: 26
 57 <212> TYPE: DNA
 58 <213> ORGANISM: Artificial Sequence
 60 <220> FEATURE:

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61 <223> OTHER INFORMATION: Jipl forward primer
63 <400> SEQUENCE: 2
64   tcgggagaag tcactagcgg ggaact                               26
66 <210> SEQ ID NO: 3
67 <211> LENGTH: 27
68 <212> TYPE: DNA
69 <213> ORGANISM: Artificial Sequence
71 <220> FEATURE:
72 <221> NAME/KEY: primer_bind
73 <222> LOCATION: (1)...(27)
74 <223> OTHER INFORMATION: Jipl nested forward primer
76 <400> SEQUENCE: 3
77   gagcagggtt ctccgccatt gctagtt                               27
79 <210> SEQ ID NO: 4
80 <211> LENGTH: 752
81 <212> TYPE: DNA
82 <213> ORGANISM: Zea mays
84 <220> FEATURE:
85 <221> NAME/KEY: promoter
86 <222> LOCATION: (1)...(752)
88 <400> SEQUENCE: 4
89   aagctttgat caaaagcgcc cgccacttct aaaggtcagg ggtcttgcgt tctgccctc   60
90   gtgcttcctt caaattcttg acctagtga tcaatttacg tacacctcag caaccgatgc   120
91   agccagtaag tatgatgagc acgattgtga cgtgttgggg toatgggtcaa tggcaaccga   180
92   gcacgaattg gtagtgtcag cttttgtac acgtgatagc atttgattcg ttcatccaat   240
93   ttgaactgtt tgaacttatg tatagagaaa ttagtccaac toatgtttaa taaatagtat   300
94   aaaacccatc gaatttctga attatgatag caggatatcca ttgtcatcgc tcagtcacag   360
95   aggcagccac tgccgacggg cgacggccga cggcctccca ttctgatccc ctctactcc   420
96   tatgctgcgg tccagcataa gttcgggaact tccggcaatc cgccggcgcc cgtcggctca   480
97   aatcgcatct acccgcgcta gaagctctct ctctctccct ccgatccggt ggggtccatt   540
98   tccttcaatt gtggcagtg cgtctctgaa ccctctataa atccccacc ccggacaccc   600
99   ttccccgacc acacgggtcca cacagcccaa caaaggagcg cggcggcccc tccttcttc   660
100  ctcccacttc tctcgcgagg cgctcgctta cctcgccctg cattccgttc gacagggga   720
101  gcggcagtga gaaggaggag aattaaggca cc                               752
103 <210> SEQ ID NO: 5
104 <211> LENGTH: 30
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <221> NAME/KEY: primer_bind
110 <222> LOCATION: (1)...(30)
111 <223> OTHER INFORMATION: Milps3 forward primer
113 <400> SEQUENCE: 5
114   cggaagctct cgatgaacat ctgaccttaa                               30
116 <210> SEQ ID NO: 6
117 <211> LENGTH: 1433
118 <212> TYPE: DNA
119 <213> ORGANISM: Zea mays
121 <220> FEATURE:

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122 <221> NAME/KEY: promoter
123 <222> LOCATION: (1)...(1433)
125 <400> SEQUENCE: 6
126 tcctaattctt caaataacca tctcaaaagt ttttttaaac atcttttgag gatatgtatc      60
127 ccatagccct agagcgctaa attgactact tttagtcgat taaaagggtat tagacatcct      120
128 tacaagtcct aagtatcaaa tcaccttcta tcggctatac acaactaacg gaagtatatct      180
129 ctatgcacac taacttatgt cggtttcgcg atggcagatc aaaattagct aacttttggt      240
130 ggctaataag agcaattcca aaagaacgtg taaactaatc tcaaaacaga tattagttaa      300
131 gaatagtaat ttttcttact ccaacagttc cctcagtcct ccccaaaaaa ttaagcgttc      360
132 cgcattccaca gcctcctctc ggctgtatct tgggtgtggt catccctccc caatccattt      420
133 ctcaacgtat cagatcatcc accgcctacg acgactgtac agtttgcgtc acatatcaca      480
134 tttaaaggaa ctgttgaggat acccatcata attcactctt aaaaaatttt agcctgctct      540
135 caataatcaa ttgggggggt aaaattttta acatcctttc ggatctaata caacttatgg      600
136 aagttagcta gctctggtcg cgctaaactc tgtcgatcgc ctattagcta atactccatc      660
137 tgtcccatata tataagggtat aaccaactct gattcaaaga ccaaaaatat acttaattgt      720
138 gtctatacca cttcatcgat gtacgtatgc atagaaagag cacatcttat attgtgqaac      780
139 aagaacaaaa aiatgggttac gccttatatt ataagacgta gaaatcaatg gtttacaata      840
140 gccagaataa gatgttttta tttatttctt atatagatgt ttttatttat ttcctatatg      900
141 tttcacataa gccttatatt gtgccgaaaa tttaggcaca cgtgccacga acgtctgaaa      960
142 tgtactccgc gcgtattacc atgcactacg acgtacgtag gagtatgtac gttgaaccaa      1020
143 gcacacatat atctctgaca cagtacaatg atatactaca acaacaacag tactgcccac      1080
144 ttcattccatt ttcacgttcc atcttcgcgc tgtgacaact cgatcggcca cgcacgcaga      1140
145 cgacgcagga gcagtaactc acagaatcct ccgccactcg tcacaccaac aggcgcgcgc      1200
146 tgggtgcgat gcatcatgtg catgccatcg tccgtccctt ggctgcctc ggtagacggt      1260
147 agctagagta gtagcctgtg cttgttaccg ctggtcaaca catcgtagcc tcctatatct      1320
148 aacgtatcct cacacatcac aagaacgaca cacagaaacc agtagccact actccatoca      1380
149 ccacgagcga gcgagcgata accctagcta gcttcaggat ccagcgagag ccc      1433
151 <210> SEQ ID NO: 7
152 <211> LENGTH: 20
153 <212> TYPE: DNA
154 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
157 <221> NAME/KEY: primer_bind
158 <222> LOCATION: (1)...(20)
159 <223> OTHER INFORMATION: Lec 1 prom. forward probe
161 <400> SEQUENCE: 7
162 acaccacgag cgcgcgataa      20
164 <210> SEQ ID NO: 8
165 <211> LENGTH: 20
166 <212> TYPE: DNA
167 <213> ORGANISM: Artificial Sequence
169 <220> FEATURE:
170 <221> NAME/KEY: primer_bind
171 <222> LOCATION: (1)...(20)
172 <223> OTHER INFORMATION: Lec 1 prom. reverse probe
174 <400> SEQUENCE: 8
175 tgggtggtgt gcggtagcat      20
177 <210> SEQ ID NO: 9
178 <211> LENGTH: 695

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179 <212> TYPE: DNA
180 <213> ORGANISM: Zea mays
182 <220> FEATURE:
183 <221> NAME/KEY: terminator
184 <222> LOCATION: (1)...(695)
186 <400> SEQUENCE: 9
187  tacctagttc gtacgtcgtt cgacttgagc aagccatcga tctgctgata tgaacgtacg      60
188  ctgtattgta cacgcatgca cgtacgtatc gccggctagc tctcctgttt aagttgtact      120
189  gtgattctgt cccggccggc tagcaactta gtatcttcct tcagtctcta gtttcttagc      180
190  agtcgtagaa gtgttcaatg cttgccagtg tgttgtttta gggccggggg aaaccatccg      240
191  atgagattat ttcattgcacg ctttttagac tgacgactgt tcgtgtgtgt cttctgcgca      300
192  gttccgctcc tagcacaatt atatcctcct tgatgatcgt ttaacgcaac agtcttctct      360
193  ggaggtctag acctagcgga tcttttgttg tactcccttc tatacgtaca tgcatactac      420
194  acgtacgtac gccggcggtg cggcagctac atattcgtcg ttcgagtgtg atgcatgggt      480
195  tgtctttaa gccccttcgtc gttctagctg ctggcctgct gctatagcct gtaggtgagg      540
196  tgttcgtggc ttgcgacgcg cgggaggaaq cacgacggac ggtggcggcg catgttctly      600
197  actctggact attgcgcgta ggcgctgac caagttccac ggtggcgtgc gcggctgcag      660
198  cgaggcgccc gcgacaagtg ccggcgatcc cgcag                                     695
200 <210> SEQ ID NO: 10
201 <211> LENGTH: 45
202 <212> TYPE: DNA
203 <213> ORGANISM: Artificial Sequence
205 <220> FEATURE:
206 <221> NAME/KEY: primer_bind
207 <222> LOCATION: (1)...(45)
208 <223> OTHER INFORMATION: Lecl term. forward primer
210 <400> SEQUENCE: 10
211  gtcgacagat ctgttaacct agttcgtacg tcgttcgact tgagc                                     45
213 <210> SEQ ID NO: 11
214 <211> LENGTH: 36
215 <212> TYPE: DNA
216 <213> ORGANISM: Artificial Sequence
218 <220> FEATURE:
219 <221> NAME/KEY: primer_bind
220 <222> LOCATION: (1)...(36)
221 <223> OTHER INFORMATION: Lecl term. reverse primer
223 <400> SEQUENCE: 11
224  gggccccgtg cggcaacaaa aatagacctg acctca                                     36
226 <210> SEQ ID NO: 12
227 <211> LENGTH: 29
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial Sequence
231 <220> FEATURE:
232 <221> NAME/KEY: primer_bind
233 <222> LOCATION: (1)...(29)
234 <223> OTHER INFORMATION: Jipl forward nested primer
236 <400> SEQUENCE: 12
237  cctttatcac cgtacaggag aagagagca                                     29
239 <210> SEQ ID NO: 13

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240 <211> LENGTH: 26
241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial Sequence
244 <220> FEATURE:
245 <221> NAME/KEY: primer_bind
246 <222> LOCATION: (1)...(26)
247 <223> OTHER INFORMATION: Jipl reverse nested primer
249 <400> SEQUENCE: 13
250   tattgtccgg tctgtccact gtctga                               26
252 <210> SEQ ID NO: 14
253 <211> LENGTH: 28
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial Sequence
257 <220> FEATURE:
258 <221> NAME/KEY: primer_bind
259 <222> LOCATION: (1)...(28)
260 <223> OTHER INFORMATION: Milps3 nested forward primer
262 <400> SEQUENCE: 14
263   gagctcctcc acgcgatcaa aagcgccc                               28
265 <210> SEQ ID NO: 15
266 <211> LENGTH: 37
267 <212> TYPE: DNA
268 <213> ORGANISM: Artificial Sequence
270 <220> FEATURE:
271 <221> NAME/KEY: primer_bind
272 <222> LOCATION: (1)...(37)
273 <223> OTHER INFORMATION: Milps3 nested reverse primer
275 <400> SEQUENCE: 15
276   cccgggccat ggtcatgcct taattccctc ctttctc                     37
278 <210> SEQ ID NO: 16
279 <211> LENGTH: 29
280 <212> TYPE: DNA
281 <213> ORGANISM: Artificial Sequence
283 <220> FEATURE:
284 <221> NAME/KEY: primer_bind
285 <222> LOCATION: (1)...(29)
286 <223> OTHER INFORMATION: Lec1 promoter forward nested primer
288 <400> SEQUENCE: 16
289   tcgaggtcga cggatcgat aagcttcct                               29
291 <210> SEQ ID NO: 17
292 <211> LENGTH: 49
293 <212> TYPE: DNA
294 <213> ORGANISM: Artificial Sequence
296 <220> FEATURE:
297 <221> NAME/KEY: primer_bind
298 <222> LOCATION: (1)...(49)
299 <223> OTHER INFORMATION: Lec1 nested reverse primer
301 <400> SEQUENCE: 17
302   gtcgacccat gggctctcgc tggatcctga agctagctag gggttatcgc       49

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